

Digital Communication Systems 1e

Errata

1. On page 53, Equation (2.82) is missing a j and should be:

$$\tilde{H}_I(f) = \frac{1}{2} [\tilde{H}(f) + j \tilde{H}^*(-f)]$$

2. On page 115, Equation (3.64) should have $\sqrt{1-\rho^2}$ in the denominator instead of $(1-\rho^2)$.
3. On page 143, hypothesis H_1 in Problem 3.41 should read: $H_1 : X = M$.
4. On page 193 in Equation (4.143), $n_i(t)$ should read $n_i(t)$. The subscript should not be italicized.
5. On page 262, the “y” between each of the two double summations in problem 5.29 should be deleted.

6. On page 429, the $\tilde{\alpha}_n^*$ in equation (7.299) should read $\tilde{\alpha}_{i,n}^*$ and there should be $i = 1, 2, 3, 4$.

after the equation.

7. On page 442, Y_c and Y_s in Figure P7.53 should be flipped; Y_s should be the numerator and Y_c the denominator.
8. On page 496, Problem 8.6 was originally intended to follow Problem 8.8 and not Problem 8.5. The order of problems should be as follows: 8.5, 8.7, 8.8, 8.6, 8.9.
9. On page 574, Problem 9.29, “the matrix produced” should read “the matrix product.”

$$A_j = \frac{\exp\left(-\frac{1}{2}L_a(m_j)\right)}{1 + \exp\left(-L_a(m_j)\right)},$$

10. On page 633, Equation (10.92) should look like this:

$$A_j = \frac{\frac{1}{2}\exp(-L_a(m_j))}{1 + \exp(-L_a(m_j))},$$

not this:

11. On page 696, in problem 10.37 part (a), $L(m_j)$ should be $L_a(m_j)$. In part (b), the

equation should be $L(m_j|\lambda_j^{(1)}, \lambda_j^{(2)}) = L_c^{(1)}\lambda_j^{(1)} + L_c^{(2)}\lambda_j^{(2)} + L_a(m_j)$.